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	-- A HELIX -- ----- B HELIX ----- C HELIX	
	*	
SWMb	VL-----SEGENQLVLRHMAKVEADVA-----GHCQDILIRLRKSHPETLEK	42
HemAT-Hs	NSNDNTLVTDVRNGIDCHALADRIGLDF--AELAWRLSFTGDDDDTAAALAAEQPLFEAT	60
HemAT-Bs	LIFRKDRKQETAYFSDSNGGQKN-RIQLTINKHADVKKQLKVRIGDAELXVLEQLQPLIQEN	61
	D HELIX ----- E HELIX ----- - F HELIX	
	*	
SWMb	-----FDREKHLKTEAEMKASEDLKKHGVIVL--TALCAJILKK-KGHHEAE-----LKPLAQS	92
HemAT-Hs	ADALVTDF--YDHLESYBETQDLFANSTKTRVEQLKETQAEYVILGICRGEYDTXYAAQRARIGKI	122
HemAT-Bs	IVNVDAF--YKNLDHESSEMDIEI NDHSSVDRLLAQTLKRHIQENTAGVIDDEFEIEKRNRIASI	122
	-- ----- G HELIX ----- ----- H HELIX -----	
	*	
SWMb	HATKKHTPIKYLEFTSEATTHVLSRHPGDFGADAGCAANKATLEFRKDIAA-KYKELGYQG	153
HemAT-Hs	HDVEGLGPPVYLCAVTHRYATGLDADADDVADRGCEAAAYDDELAVARPEPTKELTFEDDQKI	184
HemAT-Bs	HLRIGLLEPKWYNCAFGELLESNIDIN-----EASTNQQLLEKALKATTKILNLEQQI	175

SWMb SEQ. ID. No. 76
HemAT-Hs SEQ. ID. No. 77
HemAT-Bs SEQ. ID. No. 78

FIG. 1A

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K1

Tsr 324
Hemat-Hs 283
Hemat-Bs 259

HCD

Tsr 386
Hemat-Hs 345
Hemat-Bs 311

HCD

Tsr 448
Hemat-Hs 407
Hemat-Bs 366

R1

Tsr 510
Hemat-Hs 469
Hemat-Bs 428

Tsr 536
Hemat-Hs 489
Hemat-Bs 432

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FIG. 1B

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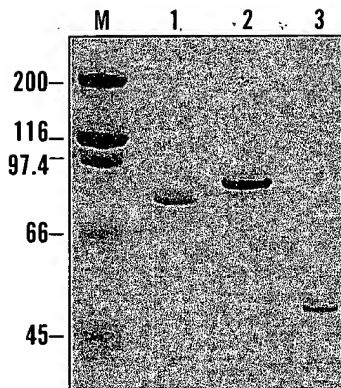


FIG. 2A

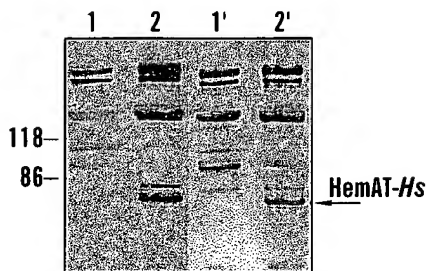


FIG. 2B

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AQRXRLAQIHAXKGKIPDWYL

GQDVLVLIKXHLIQEKIXXFDFFKH

M2-BOX
SEQ. ID. NO. 83

M1-BOX
SEQ. ID. NO. 82

TEMPLATE

AQRXRLAQIHAXKGKIPDWYL

GQDVLVLIKXNPEIQEKFFFFKH

M2-BOX
SEQ. ID. NO. 86

M1-BOX
SEQ. ID. NO. 85

THE TWO SEQUENCES USED IN THE ANALYSES. M1 AND M2 ARE THE SITE OF MYOGLOBIN RECOGNITION. M2 IS THE SITE OF Hemat RECOGNITION. THE H-BOX IS THE SITE PRIMARILY OF MICROBIAL HEMOGLOBIN RECOGNITION.

FIG. 3

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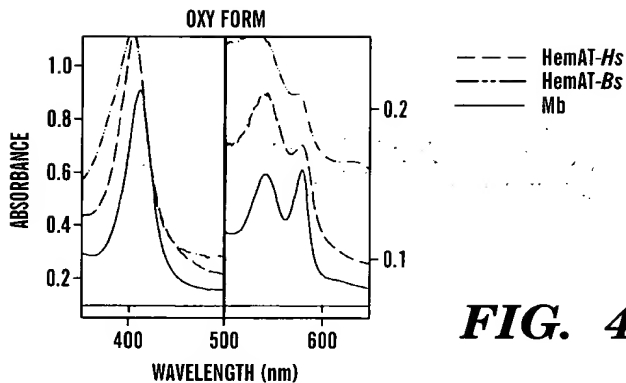


FIG. 4A

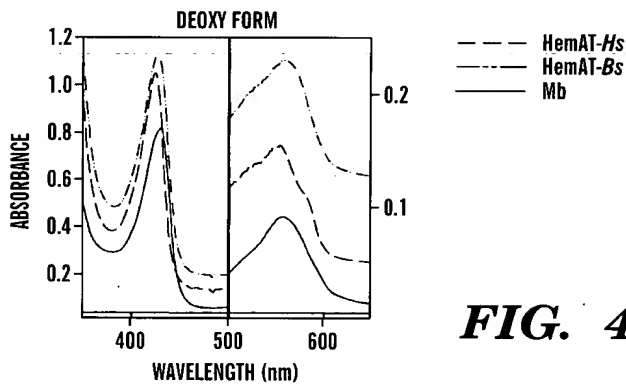


FIG. 4B

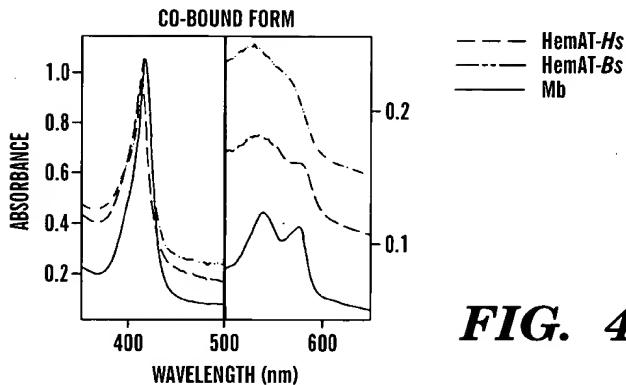
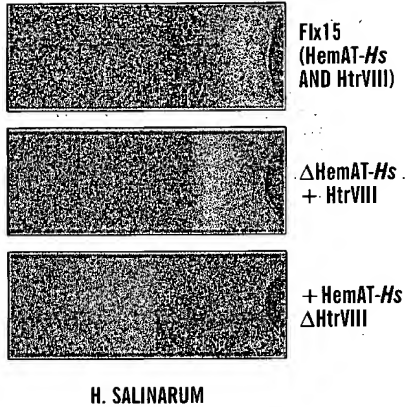


FIG. 4C

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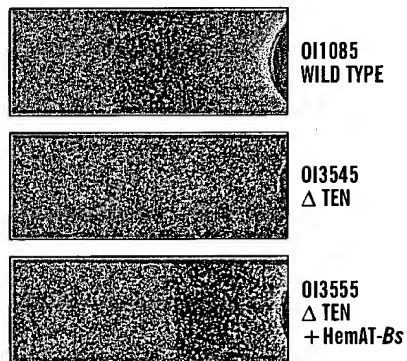


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H. SALINARUM

FIG. 5A



B. SUBTILIS

FIG. 5B

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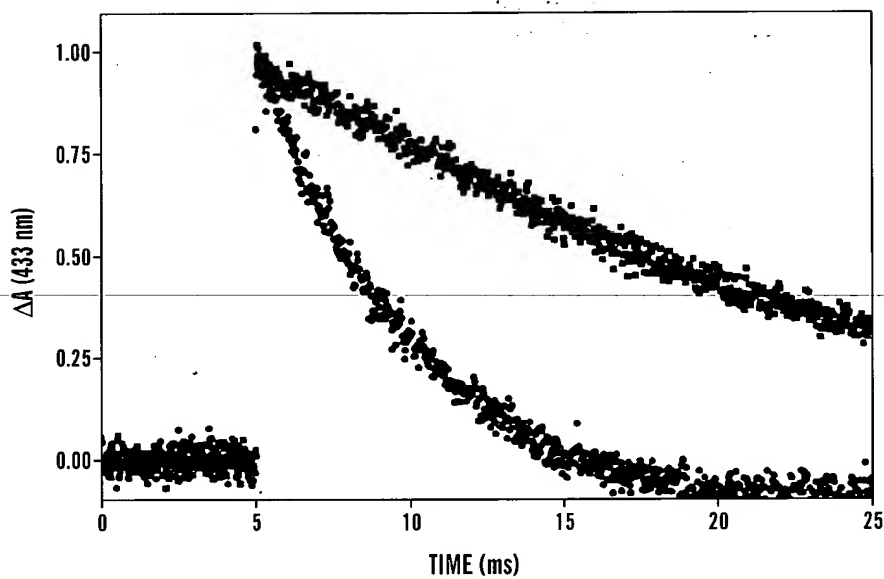


FIG. 6

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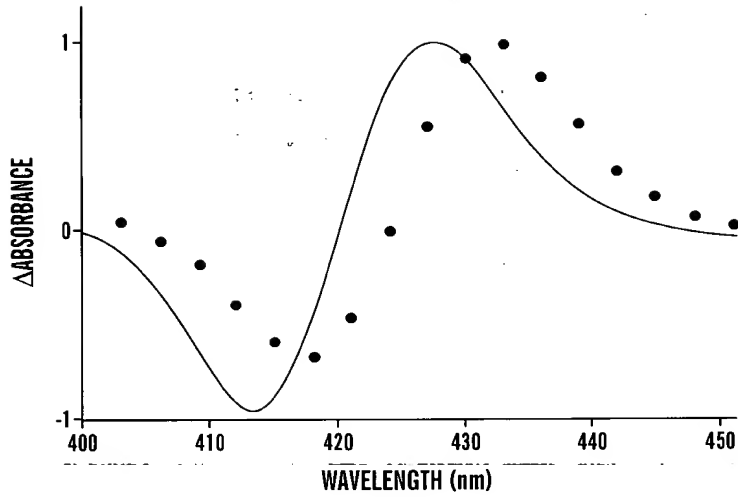


FIG. 7A

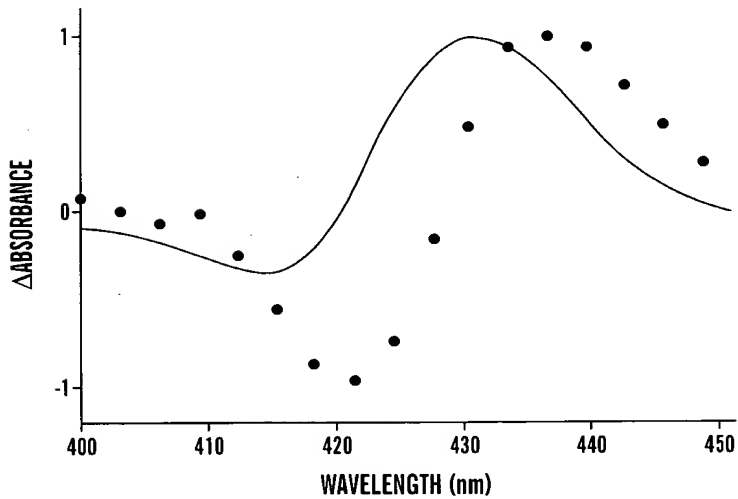


FIG. 7B

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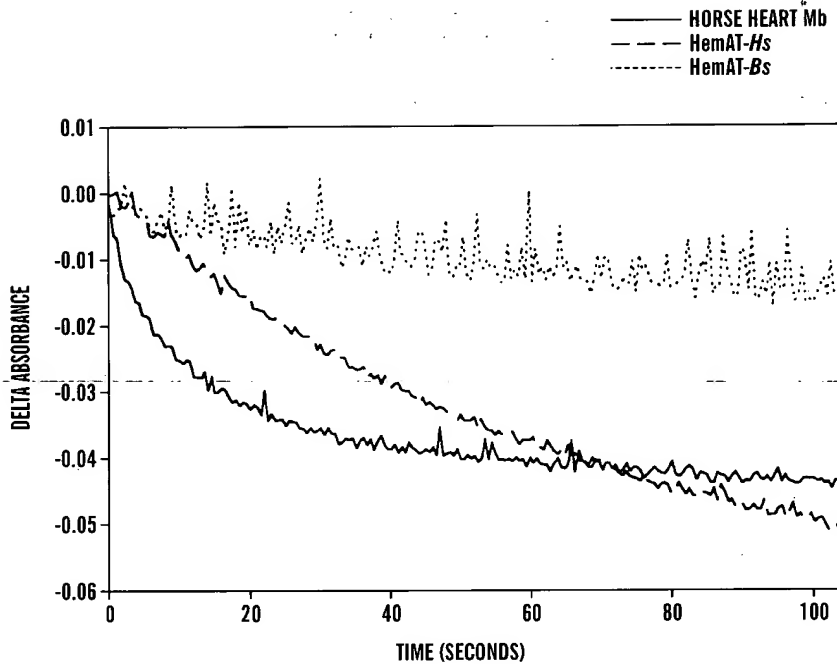


FIG. 8

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